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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,879	03/30/2004	Bin Wei	129545-1	2878
	7590 03/22/200 ECTRIC COMPANY	EXAMINER		
GLOBAL RESEARCH			POPOVICS, ROBERT J	
PATENT DOCKET RM. BLDG. K1-4A59 NISKAYUNA, NY 12309		59	ART UNIT	PAPER NUMBER
			1724	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MOI	NTHS	03/22/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

-		Application No.	Applicant(s)			
Office Action Summary		10/708,879	WEI ET AL.			
		Examiner	Art Unit			
		Robert J. Popovics	1724			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status			•			
1)⊠	Responsive to communication(s) filed on 29 De	ecember 2006				
·		action is non-final.				
′—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٥,۵	closed in accordance with the practice under E	•				
-	on of Claims	,	-			
•	Claim(s) <u>1,3-13 and 15-24</u> is/are pending in the	• •	· ·			
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
· -	Claim(s) <u>1,3-13 and 15-24</u> is/are rejected.					
7)	Claim(s) is/are objected to.	·	•			
8)∐	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers		• •			
9)□	The specification is objected to by the Examine	r.	•			
•	The drawing(s) filed on is/are: a) acce		Examiner.			
,—	Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority (inder 35 II S.C. & 119	•				
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) _[a) All b) Some * c) None of:					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6)						

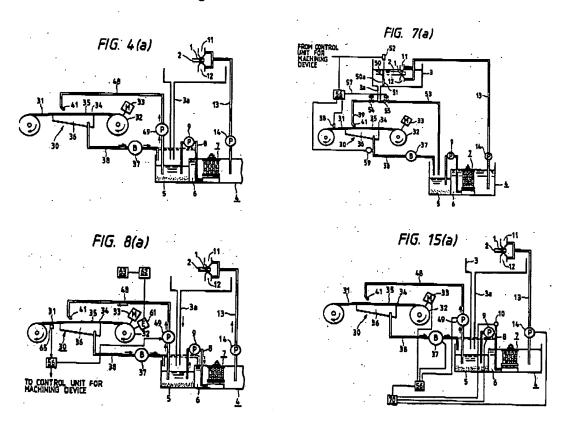
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DETAILED ACTION

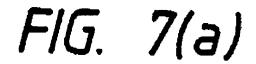
Claim Rejections - 35 USC § 102

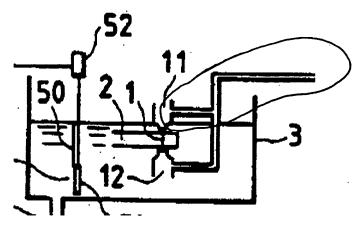
Claims 1,3,5,7,8,10,13,15,19,20 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Suzuki (US 5,221,467). See Figures 4(a), 7(a), 8(a) and 15(a) each of which illustrates two stage filtration in an EDM:



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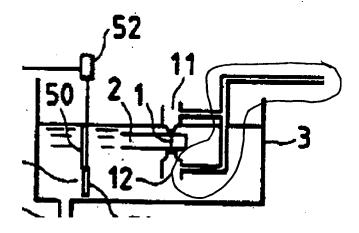
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"First Path"

FIG. 7(a)



"Second Path"

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Claims 5,11,12,17,23 and 24 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Suzuki (US 5,221,467). It is noted that the use of "guides" as recited in claims 5,11,12,17,23 and 24, is well known in the art. It is submitted that the use of a guide in the system of Suzuki would be inherent. Alternatively, it is submitted that the use of a guide in the system of Suzuki would have been obvious by virtue of the well known status of guides.

Claim Rejections - 35 USC § 103

Claims 5,11,12,17,23 and 24 are *alternatively* rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of **Suzuki** (**US 5,221,467**) and **Hosaka** (**US 6,533,927**). Hosaka discloses guide 13. The use of a guide in the system of Suzuki would have been obvious in view of the teachings of Hosaka.

Claims **4,6,9,16,18** and **21** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Suzuki** (**US 5,221,467**). The additional subject matter of claims **4,6,9,16** and 18 merely recites features which are conventional, or would have been readily apparent to those skilled in the art. It is noted that the use of sloped tank bottoms to direct accumulated debris is notoriously well known in the art. It is known that the use of control systems employing pressure sensors at various points in a system is notoriously well known in the art. The use of additional pumps and flowpath configurations would have been readily apparent to those skilled in the art for various reasons, including, but not limited to, reducing the size of the pump and/or piping, avoiding points of stagnation in either tanks, using materials on hand (as opposed to buying), redundancy, to permit cycling and/or maintenance of the pumps/lines, etc.

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Accordingly, claims 4,6,9,16,18 and 21 are not seen to patentably distinguish over Suzuki (US 5,221,467).

Response to Arguments

Applicant's arguments filed **December 29, 2006** have been fully considered but they are not persuasive.

Applicants argue:

As to each of the outstanding § 102 and § 103 rejections of the remaining claims based on the Suzuki reference, the Applicants respectfully traverse the same for the reason that Suzuki fails to teach or suggest the use of a second fluid return path to the work tank, as presently claimed. Moreover, Suzuki further fails to teach or suggest that the second fluid retm-n path introduces finely-filtered machining fluid through a adding inlet disposed at a lower portion of the work tank, as is also claimed.

The Examiner respectfully disagrees with Applicants' assertions. Two paths are disclosed by Suzuki which return fluid to the work tank. Each of the two paths share a common portion. The language of the claims does not preclude the two paths from having a portion in common. The term "path" has been given its ordinary meaning. See the definitions cited at Dictionary.com (attached).

Applicants additionally argue:

Notwithstanding the above, the claims further recite that while the first fluid return path introduces the filtered fluid through an electrode, the second fluid return path introduces the filtered fluid through a liquid <u>adding inlet disposed</u> at a lower portion of the work tank. This is yet another element that is totally missing from Suzuki.

The structure disclosed by Suzuki is seen to constitute a "*liquid adding inlet,*" since, that is what it does.

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It is noted that Applicants have not challenged the Examiner's assertions regarding the well known or conventional status of "guides," and "The additional subject matter of claims 4,6,9,16 and 18 merely recites features which are conventional, or would have been readily apparent to those skilled in the art. It is noted that the use of sloped tank bottoms to direct accumulated debris is notoriously well known in the art. It is known that the use of control systems employing pressure sensors at various points in a system is notoriously well known in the art. The use of additional pumps and flowpath configurations would have been readily apparent to those skilled in the art for various reasons, including, but not limited to, reducing the size of the pump and/or piping, avoiding points of stagnation in either tanks, using materials on hand (as opposed to buying), redundancy, to permit cycling and/or maintenance of the pumps/lines, etc." Applicants silence constitutes acquiescence of the Examiner's position, and is acknowledged.

Conclusion

Applicant's amendment necessitated any new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to Robert J. Popovics at telephone number (571) 272-1164.

Robert James Popovics Primary Examiner Art Unit 1724

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